

What is claimed is:

1 1. A drier module for use in a drier having a drier motor and one of two heat
2 generation means, the module comprising:

3 a selection switch for selecting one of a gas mode and an electric mode;

4 a first connector providing a connection to the drier motor and to a first heat
5 generation means;

6 a second connector providing a connection to the first heat generation means and to a
7 second heat generation means; and

8 a microprocessor, electrically connected to said first and second connectors, for
9 detecting a presence of an error condition with respect to the selected mode of said selection
10 switch, based on the connections of said first and second connectors.

1 2. The module as claimed in claim 1, further comprising:

2 a first relay, electrically connected between said microprocessor and first connector,
3 for controlling power to the drier motor; and

4 a second relay, electrically connected between said microprocessor and first
5 connector, for controlling power to the one of the two heat generation means.

1 3. The module as claimed in claim 1, wherein the first heat generation means
2 includes a gas control circuit.

1 4. The module as claimed in claim 1, wherein the second heat generation means
2 is an electric heater.

1 5. The module as claimed in claim 1, further comprising a power supply for
2 providing, under control of said microcomputer, operational power for the drier motor and
3 first and second heat generation means.

1 6. The module as claimed in claim 1, further comprising a display for
2 displaying a message indicating the presence of the error condition.

1 7. The module as claimed in claim 1, wherein the presence of the error
2 condition is detected during an assembly stage of the drier.

1 8. The module as claimed in claim 1, wherein the presence of the error
2 condition is detected during a usage of the drier.

1 9. The module as claimed in claim 8, wherein said microcomputer is disabled
2 when the presence of the error condition is detected.

1 10. The module as claimed in claim 1, wherein said selection switch includes
2 manual setting means for modifying the module according to an assembly state of the drier.

1 11. The module as claimed in claim 10, wherein the manual setting means is set
2 for the electric mode.

1 12. The module as claimed in claim 10, wherein the manual setting means is set

2 for the gas mode.

1 13. The module as claimed in claim 12, wherein said microcomputer receives via
2 said second connector a flame detection signal from the second heat generation means.

1 14. The module as claimed in claim 1, wherein one of the two heat generation
2 means uses an energy source of gas and the other uses an energy source of electricity.

1 15. The module as claimed in claim 1, wherein the drier is a laundry drier.